

CLAIMS

1. Decontaminating composition exhibiting at the same time bactericidal, fungicidal and virucidal properties, comprising, as active components, eugenol, eugenol acetate, vanillin and carvacrol, characterized in that said components are present in a proportion of at least approximately 12% by weight for eugenol, at least approximately 3% by weight for eugenol acetate, at least approximately 0.1% by weight for vanillin and at least approximately 0.5% by weight for carvacrol.

2. Decontaminating composition according to Claim 1, characterized in that its active components eugenol, eugenol acetate, vanillin and carvacrol are contained in plant elements.

3. Decontaminating composition according to Claim 1, characterized in that the eugenol and the eugenol acetate are contained in clove.

4. Decontaminating composition according to Claim 1, characterized in that the vanillin is contained in vanilla.

5. Decontaminating composition according to Claim 1, characterized in that the carvacrol is contained in oregano.

6. Decontaminating composition according to Claim 1, characterized in that the carvacrol is contained in savory.

7. Decontaminating composition according to Claim 1, characterized in that it also comprises thymol as active component.

8. Decontaminating composition according to Claim 7, characterized in that the thymol is contained in thyme.

9. Decontaminating composition according to Claim 7, characterized in that it comprises at least approximately 0.5% by weight of thymol.

10. Decontaminating composition according to Claim 1, characterized in that it also comprises at least one mineral salt.

11. Decontaminating composition according to Claim 10, characterized in that the mineral salt is chosen from chlorides, carbonates, silicates and sulphates of alkali metals, of ammonium, of alkaline earth metals, of aluminium or of magnesium, and alums.

12. Decontaminating composition according to Claim 11, characterized in that the mineral salt is chosen from sodium chloride and sodium bicarbonate.

13. Decontaminating composition according to Claim 12, characterized in that the sodium chloride is contained in grey salt.

14. Decontaminating composition according to Claim 10, characterized in that it comprises at least approximately 0.5% by weight of mineral salt.

15. Decontaminating composition according to Claim 1, characterized in that it comprises, as active components, eugenol, eugenol acetate, vanillin, carvacrol and thymol, with the following percentages by weight:

- eugenol: 15-25
- eugenol acetate: 3-5
- vanillin: 0.25-0.35
- carvacrol: 0.7-1.2
- thymol: 0.7-1.2

16. Decontaminating composition according to Claim 15, characterized in that the eugenol, the eugenol acetate, the vanillin, the carvacrol and the thymol are each contained in plant elements.

17. Decontaminating composition according to Claim 1, characterized in that it also comprises at least one trace element.

18. Decontaminating composition according to Claim 1, characterized in that it also comprises at least one monoterpene.

19. Decontaminating composition according to Claim 18, characterized in that the monoterpene derives from a plant.

20. Decontaminating composition according to Claim 19, characterized in that the plant is chosen from the group consisting of pine and fir.

21. Decontaminating composition according to Claim 1, characterized in that it also comprises at least one monoterpene alcohol.

22. Decontaminating composition according to Claim 21, characterized in that the monoterpene alcohol derives from a plant.

23. Decontaminating composition according to Claim 22, characterized in that the plant is chosen from the group consisting of rosewood, peppermint and lemon grass.

24. Decontaminating composition according to Claim 1, characterized in that it also comprises at least one aromatic aldehyde.

25. Decontaminating composition according to Claim 24, characterized in that the aromatic aldehyde derives from a plant.

26. Decontaminating composition according to Claim 25, characterized in that the plant is chosen from the group consisting of cinnamon, cumin and lavender.

27. Decontaminating composition according to Claim 1, characterized in that it

also comprises at least one sulphur-containing compound.

28. Decontaminating composition according to Claim 24, characterized in that the sulphur-containing compound derives from a plant.

29. Decontaminating composition according to Claim 28, characterized in that  
5 the plant is chosen from the group consisting of garlic and onion.

30. Decontaminating composition according to Claim 1, characterized in that it also comprises at least one nitrogenous compound.

31. Decontaminating composition according to Claim 26, characterized in that the nitrogenous compound derives from a plant element.

10 32. Decontaminating composition according to Claim 31, characterized in that the plant element is chosen from *citrus reticulata* and *citrus paradisi*.

33. Decontaminating composition according to Claim 1, characterized in that it contains extracts of plants below:

- *eugenia caryophyllata*
- 15 - at least one *origanum* chosen from *origanum heracleoticum* and *origanum majorana*
- *vanilla planifolia* Andrews.

34. Decontaminating composition according to Claim 33, characterized in that it also contains one or more extracts of plants chosen from the following:

- 20 - *artemisia dracunculus* L.
- *carum carvi*
- *chamaemelum nobile*
- *cinnamomum zeylanicum*
- *cinnamomum camphora*
- 25 - *citrus paradisi*
- *coriandrum sativum*
- *cuminum cyminum*
- *eucalyptus radiata*
- *hyssopus officinalis*
- 30 - *juniperus communis*
- *lavandula officinalis*
- *lippia citriodora*
- *melissa officinalis*
- *mentha piperita*
- 35 - *myristica fragrans*

- *ocimum gratissimum*
- *urtica dioica*
- *pimpinella anisum*
- *pinus pinaster*
- 5 - *rosmarinus officinalis*
- *salvia officinalis*
- *satureja montana*
- *sesamum indicum*
- *thymus vulgaris*
- 10 - *zingiber officinalis*

and also elements chosen from sodium bicarbonate, sodium chloride and hydrophilic colloids such as clays.

35. Decontaminating composition according to Claim 34, characterized in that the composition thereof is:

15	- clay/hydrophilic colloids	=	12.0	% by weight
	- <i>artemisia dracunculus</i>	=	0.5	% by weight
	- sodium bicarbonate	=	1.0	% by weight
	- <i>carum carvi</i>	=	1.5	% by weight
	- <i>chamaemelum nobile</i>	=	0.5	% by weight
20	- <i>cinnamomum zeylanicum</i>	=	0.5	% by weight
	- <i>cinnamomum camphora</i>	=	0.1	% by weight
	- <i>citrus paradisi</i>	=	0.1	% by weight
	- <i>coriandrum sativum</i>	=	1.0	% by weight
	- <i>cuminum cyminum</i>	=	2.0	% by weight
25	- <i>eucalyptus radiata</i>	=	5.0	% by weight
	- <i>eugenia caryophyllata</i>	=	23.1	% by weight
	- <i>hyssopus officinalis</i>	=	1.0	% by weight
	- <i>juniperus communis</i>	=	0.5	% by weight
	- <i>lavandula officinalis</i>	=	5.0	% by weight
30	- <i>lippia citriodora</i>	=	0.5	% by weight
	- <i>melissa officinalis</i>	=	0.5	% by weight
	- <i>mentha piperita</i>	=	0.5	% by weight
	- <i>myristica fragrans</i>	=	0.5	% by weight
	- <i>ocimum gratissimum</i>	=	0.5	% by weight
35	- <i>origanum heracleoticum</i>	=	5.0	% by weight

	- <i>origanum majorana</i>	=	5.0	% by weight
	- <i>urtica dioica</i>	=	5.0	% by weight
	- <i>pimpinella anisum</i>	=	0.5	% by weight
	- <i>pinus pinaster</i>	=	2.0	% by weight
5	- <i>rosmarinus officinalis</i>	=	10.0	% by weight
	- <i>salvia officinalis</i>	=	1.0	% by weight
	- <i>satureja montana</i>	=	1.0	% by weight
	- <i>sesamum indicum</i>	=	5.0	% by weight
	- <i>thymus vulgaris</i>	=	5.0	% by weight
10	- <i>vanilla planifolia</i> Andrews	=	1.2	% by weight
	- <i>zingiber officinalis</i>	=	2.0	% by weight
	- sodium chloride	=	1.0	% by weight.

36. Method for producing a decontaminating composition according to Claim 2, in which the four active components eugenol, eugenol acetate, vanillin and carvacrol are contained in plant elements, said method being characterized in that it comprises:

(a) a first step consisting in grinding said pre-dried plant elements, said grinding step producing a powder having a mean particle size ranging from approximately 0.5 mm to approximately 1.2 mm,

(b) a second step consisting in macerating said powder, at ambient temperature, in a solution for at least 12 hours, preferably for approximately 24 hours, resulting in a maceration juice and residual inert plant material.

37. Method according to Claim 36, characterized in that it comprises, after the second maceration step, a third step consisting in impregnating the maceration solution onto a support chosen from inert porous plant supports and inert mineral supports.

38. Method according to Claim 37, characterized in that the support is chosen from the group consisting of talc, active charcoal and mineral salts.

39. Method according to Claim 38, characterized in that the mineral salt is chosen from sodium chloride and sodium bicarbonate.

40. Method according to Claim 37, characterized in that the inert support consists of inert plant material.

41. Method according to Claim 40, characterized in that the inert plant material is the residual inert plant material resulting from the maceration step (b).

42. Use of a decontaminating composition according to any one of Claims 1 to 35, for obtaining a biodecontaminant material, characterized in that said decontaminating composition is integrated, in the production process, into said material.

43. Biodecontaminant material obtained according to Claim 42, chosen from the group of plastic materials, papers and non-wovens.